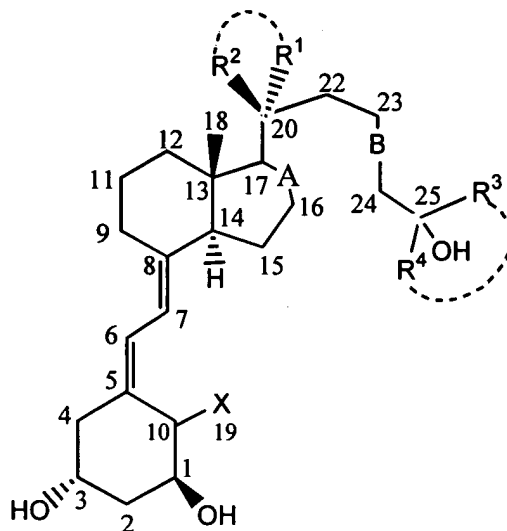


1. A compound selected from the group of compounds represented by Formula (I)



X is hydrogen or  $=\text{CH}_2$ ;

10 R<sup>3</sup> and R<sup>4</sup> are, independently of each other, a (C<sub>1</sub>-C<sub>4</sub>)alkyl or (C<sub>1</sub>-C<sub>4</sub>)fluoroalkyl, or R<sup>3</sup> and R<sup>4</sup> together with C25 form a (C<sub>3</sub>-C<sub>9</sub>)cycloalkyl or (C<sub>3</sub>-C<sub>9</sub>)cyclofluoroalkyl;

A is a single or a double bond; and

B is a single, double or triple bond;

and prodrugs thereof, provided that:

15 (i) when R<sup>1</sup> and R<sup>2</sup> are (C<sub>1</sub>-C<sub>4</sub>)alkyl or R<sup>1</sup> and R<sup>2</sup> together with C20 form a cyclopropyl group or =CH<sub>2</sub>, R<sup>3</sup> and R<sup>4</sup> are (C<sub>1</sub>-C<sub>4</sub>)alkyl, trifluoromethyl or R<sup>3</sup> and R<sup>4</sup> together with C25 form (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl and A is a single bond, then B is not a trans double bond;

(ii) when B is a single bond, then R<sup>1</sup> and R<sup>2</sup> together with C20 form a (C<sub>3</sub>-C<sub>6</sub>)-cycloalkyl or (C<sub>3</sub>-C<sub>6</sub>)cyclofluoroalkyl group; and

20 (iii) when R<sup>1</sup> and R<sup>2</sup> are (C<sub>1</sub>-C<sub>4</sub>)alkyl, R<sup>3</sup> and R<sup>4</sup> are (C<sub>1</sub>-C<sub>4</sub>)alkyl, X=CH<sub>2</sub> and A is a single bond, then B is not a double bond.

2. The compound of Claim 1, wherein:

B is a triple bond.

3. The compound of Claim 2, wherein:

R<sup>1</sup> and R<sup>2</sup> together with C20 form a (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl;

5 R<sup>3</sup> and R<sup>4</sup> are, independently of each other, a (C<sub>1</sub>-C<sub>4</sub>)alkyl or a (C<sub>1</sub>-C<sub>4</sub>)fluoroalkyl;

X is =CH<sub>2</sub>; and

A is a single bond.

- 10 4. The compound of Claim 3, wherein:

R<sup>1</sup> and R<sup>2</sup> together with C20 form a cyclopropyl group; and

R<sup>3</sup> and R<sup>4</sup> are, independently of each other, methyl, ethyl, trifluoromethyl, 1,1-difluoroethyl or 2,2,2-trifluoroethyl.

- 15 5. The compound of Claim 4, wherein R<sup>3</sup> and R<sup>4</sup> are methyl namely, 1,25-dihydroxy-23-yne-20,21,28-cyclopropyl-cholecalciferol.

6. The compound of Claim 4, wherein R<sup>3</sup> and R<sup>4</sup> are trifluoromethyl, namely 1,25-dihydroxy-23-yne-26,27-hexafluoro-20,21,28-cyclopropyl-cholecalciferol.

20

7. The compound of Claim 2, wherein:

R<sup>1</sup> and R<sup>2</sup> together with C20 form a (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl;

R<sup>3</sup> and R<sup>4</sup> are, independently of each other, a (C<sub>1</sub>-C<sub>4</sub>)alkyl or a (C<sub>1</sub>-C<sub>4</sub>)fluoroalkyl;

25

X is hydrogen; and

A is a single bond.

8. The compound of Claim 7, wherein:

R<sup>1</sup> and R<sup>2</sup> together with C20 form a cyclopropyl group; and

R<sup>3</sup> and R<sup>4</sup> are, independently of each other, methyl, ethyl, trifluoromethyl, 1,1-difluoroethyl or 2,2,2-trifluoroethyl.

5 9. The compound of Claim 8, wherein R<sup>3</sup> and R<sup>4</sup> are methyl, namely 1,25-dihydroxy-23-yne-20,21,28-cyclopropyl-19-nor-cholecalciferol.

10. The compound of Claim 8, wherein R<sup>3</sup> and R<sup>4</sup> are trifluoromethyl, namely 1,25-dihydroxy-23-yne-26,27-hexafluoro-20,21,28-cyclopropyl-19-nor-cholecalciferol.

10 11. The compound of Claim 2, wherein:

R<sup>1</sup> and R<sup>2</sup> together with C20 form a (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl;

R<sup>3</sup> and R<sup>4</sup> are, independently of each other, a (C<sub>1</sub>-C<sub>4</sub>)alkyl or a (C<sub>1</sub>-C<sub>4</sub>)fluoroalkyl;

X is =CH<sub>2</sub>; and

15 A is a double bond.

12. The compound of Claim 11, wherein:

R<sup>1</sup> and R<sup>2</sup> together with C20 form a cyclopropyl group; and

20 R<sup>3</sup> and R<sup>4</sup> are, independently of each other, methyl, ethyl, trifluoromethyl, 1,1-difluoroethyl or 2,2,2-trifluoroethyl.

13. The compound of Claim 2, wherein:

R<sup>1</sup> and R<sup>2</sup> together with C20 form a (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl;

25 R<sup>3</sup> and R<sup>4</sup> are, independently of each other, a (C<sub>1</sub>-C<sub>4</sub>)alkyl or a (C<sub>1</sub>-C<sub>4</sub>)fluoroalkyl;

X is H<sub>2</sub>; and

A is a double bond.

14. The compound of Claim 13, wherein:

30 R<sup>1</sup> and R<sup>2</sup> together with C20 form a cyclopropyl group; and

$R^3$  and  $R^4$  are, independently of each other, methyl, ethyl, trifluoromethyl, 1,1-difluoroethyl or 2,2,2-trifluoroethyl.

15. The compound of Claim 1, wherein:

5           A is a double bond; and  
          B is a double bond.

16. The compound of Claim 15, wherein:

$R^1$  and  $R^2$  together with C20 form a (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl;  
10        $R^3$  and  $R^4$  are, independently of each other, a (C<sub>1</sub>-C<sub>4</sub>)alkyl or a  
          (C<sub>1</sub>-C<sub>4</sub>)fluoroalkyl; and  
          X is =CH<sub>2</sub>.

17. The compound of Claim 16, wherein:

15        $R^1$  and  $R^2$  together with C20 form a cyclopropyl group; and  
           $R^3$  and  $R^4$  are, independently of each other, methyl, ethyl, trifluoromethyl,  
          1,1-difluoroethyl or 2,2,2-trifluoroethyl.

18. The compound of Claim 15, wherein:

20        $R^1$  and  $R^2$  together with C20 form a (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl;  
           $R^3$  and  $R^4$  are, independently of each other, a (C<sub>1</sub>-C<sub>4</sub>)alkyl or a  
          (C<sub>1</sub>-C<sub>4</sub>)fluoroalkyl; and  
          X is H<sub>2</sub>.

25   19. The compound of Claim 18, wherein:

$R^1$  and  $R^2$  together with C20 form a cyclopropyl group; and  
           $R^3$  and  $R^4$  are, independently of each other, methyl, ethyl, trifluoromethyl,  
          1,1-difluoroethyl or 2,2,2-trifluoroethyl.

20. The compound of Claim 1, wherein:

A is a single bond; and

B is a cis double bond.

5 21. The compound of Claim 20, wherein:

$R^1$  and  $R^2$  together with C20 form a (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl;

$R^3$  and  $R^4$  are, independently of each other, a (C<sub>1</sub>-C<sub>4</sub>)alkyl or a (C<sub>1</sub>-C<sub>4</sub>)fluoroalkyl; and

X is =CH<sub>2</sub>.

10

22. The compound of Claim 21, wherein:

$R^1$  and  $R^2$  together with C20 form a cyclopropyl group; and

$R^3$  and  $R^4$  are, independently of each other, methyl, ethyl, trifluoromethyl, 1,1-difluoroethyl or 2,2,2-trifluoroethyl.

15

23. The compound of Claim 22, wherein  $R^3$  and  $R^4$  are trifluoromethyl namely, 1,25-dihydroxy-23-(Z)-ene-26,27-hexafluoro-20,21,28-cyclopropyl-cholecalciferol.

24. The compound of Claim 20, wherein:

20

$R^1$  and  $R^2$  together with C20 form a (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl;

$R^3$  and  $R^4$  are, independently of each other, a (C<sub>1</sub>-C<sub>4</sub>)alkyl or a (C<sub>1</sub>-C<sub>4</sub>)fluoroalkyl; and

X is H<sub>2</sub>.

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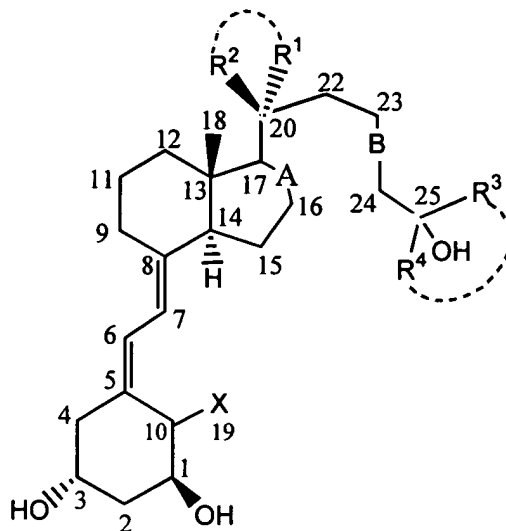
25. The compound of Claim 24, wherein:

$R^1$  and  $R^2$  together with C20 form a cyclopropyl group; and

$R^3$  and  $R^4$  are, independently of each other, methyl, ethyl, trifluoromethyl, 1,1-difluoroethyl or 2,2,2-trifluoroethyl.



28. A method of treating cancer via administration of a therapeutically effective amount of a compound of Formula (I)



wherein:

- 5 X is hydrogen or =CH<sub>2</sub>;

R<sup>1</sup> and R<sup>2</sup> are, independently of each other, a (C<sub>1</sub>-C<sub>4</sub>)alkyl or (C<sub>1</sub>-C<sub>4</sub>)fluoroalkyl, or R<sup>1</sup> and R<sup>2</sup> together with C20 form a (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl or (C<sub>3</sub>-C<sub>6</sub>)cyclofluoroalkyl, or R<sup>1</sup> and R<sup>2</sup> together form =CH<sub>2</sub>;

- 10 R<sup>3</sup> and R<sup>4</sup> are, independently of each other, a (C<sub>1</sub>-C<sub>4</sub>)alkyl or (C<sub>1</sub>-C<sub>4</sub>)fluoroalkyl, or R<sup>3</sup> and R<sup>4</sup> together with C25 form a (C<sub>3</sub>-C<sub>9</sub>)cycloalkyl or (C<sub>3</sub>-C<sub>9</sub>)cyclofluoroalkyl;

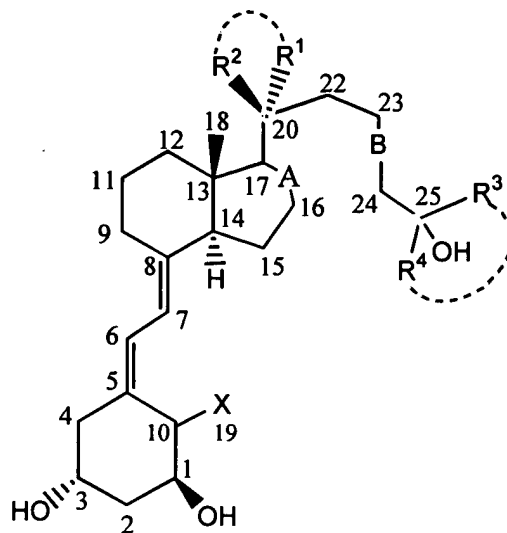
A is a single or a double bond; and

B is a single, double or triple bond;

and prodrugs thereof, provided that:

- 15 (i) when R<sup>1</sup> and R<sup>2</sup> are (C<sub>1</sub>-C<sub>4</sub>)alkyl or R<sup>1</sup> and R<sup>2</sup> together with C20 form a cyclopropyl group or =CH<sub>2</sub>, R<sup>3</sup> and R<sup>4</sup> are (C<sub>1</sub>-C<sub>4</sub>)alkyl, trifluoromethyl or R<sup>3</sup> and R<sup>4</sup> together with C25 form (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl and A is a single bond, then B is not a trans double bond;
- (ii) when B is a single bond, then R<sup>1</sup> and R<sup>2</sup> together with C20 form a (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl or (C<sub>3</sub>-C<sub>6</sub>)cyclofluoroalkyl group; and
- (iii) when R<sup>1</sup> and R<sup>2</sup> are (C<sub>1</sub>-C<sub>4</sub>)alkyl, R<sup>3</sup> and R<sup>4</sup> are (C<sub>1</sub>-C<sub>4</sub>)alkyl, X=CH<sub>2</sub> and A is a
- 20 single bond, then B is not a double bond.

29. A method of treating secondary hyperparathyroidism via administration of a therapeutically effective amount of a compound of Formula (I)



wherein:

- 5 X is hydrogen or =CH<sub>2</sub>;

R<sup>1</sup> and R<sup>2</sup> are, independently of each other, a (C<sub>1</sub>-C<sub>4</sub>)alkyl or (C<sub>1</sub>-C<sub>4</sub>)fluoroalkyl, or R<sup>1</sup> and R<sup>2</sup> together with C20 form a (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl or (C<sub>3</sub>-C<sub>6</sub>)cyclofluoroalkyl, or R<sup>1</sup> and R<sup>2</sup> together form =CH<sub>2</sub>;

- 10 R<sup>3</sup> and R<sup>4</sup> are, independently of each other, a (C<sub>1</sub>-C<sub>4</sub>)alkyl or (C<sub>1</sub>-C<sub>4</sub>)fluoroalkyl, or R<sup>3</sup> and R<sup>4</sup> together with C25 form a (C<sub>3</sub>-C<sub>9</sub>)cycloalkyl or (C<sub>3</sub>-C<sub>9</sub>)cyclofluoroalkyl;

A is a single or a double bond; and

B is a single, double or triple bond;

and prodrugs thereof.

- 15 30. A pharmaceutical composition comprising an effective amount of a compound of Claim 1.

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